QC ABSTRACT

NAME OF WORK: Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 04-11-21

Lab ID	:	**CP-RW-2022-03-25-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	02-11-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.2	73.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	224.5	226.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.2
5	Aggregate impact value	(B/A)*100	25.0	24.5
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

* The results obtained are satisfactory as per standard requirements.

Note:-

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Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 04-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	02-11-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2262	2577	23.4	76.6	60-80
11.2	2183	4760	43.3	56.7	40-60
4.75	2269	7029	63.9	36.1	25-40
2.36	1635	8664	78.8	21.2	15-30
0.6	655	9319	84.7	15.3	8-22
0.075	1342	10661	96.9	3.1	0-5

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 04-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O. Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	02-11-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	24.3%	

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Bruhath Bengaluru Mahanagara Palike

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-03-25-33** **Date: 17-11-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.

Agency : Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097

Customer Reference : BBMP/EE/BTP/WO/38/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-11-21

Type of Mix : BC-Plant (Bituminous Concrete)

Date of Test : 15-11-21

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	85	85	1.7	98.3	90-100
9.5	705	790	15.8	84.2	70-88
4.75	865	1655	33.1	66.9	53-71
2.36	592	2247	44.9	55.1	42-58
1.18	469	2716	54.3	45.7	34-48
0.6	506	3222	64.4	35.6	26-38
0.3	565	3787	75.7	24.3	18-28
0.15	462	4249	85.0	15.0	12-20
0.075	360	4609	92.2	7.8	4-10
PAN	390	4999	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-21
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	15-11-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	15-11-21

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.6	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.5		
Strength	Aggregate Impact Value	23.5	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.65	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	15-11-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.16	11.14	10KN(min)
2	Marshal flow at 60°C, mm	3.56	3.52	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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Page 1/1
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 23-11-21

Lab ID	:	**CP-RW-2022-03-25-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	22-11-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	22-11-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	466	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.80	6.20
4	Average percentage	%	6.5	

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Lab ID : **CP-RW-2022-03-25-33** **Date: 23-11-21**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 466

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	65	71	15.2	84.8	70-88
4.75	115	186	39.9	60.1	53-71
2.36	83	269	57.7	42.3	42-58
1.18	28	297	63.7	36.3	34-48
0.6	13	310	66.5	33.5	26-38
0.3	48	358	76.8	23.2	18-28
0.15	49	407	87.3	12.7	12-20
0.075	56	463	99.4	0.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.1	85.9	70-88
4.75	112	178	38.0	62.0	53-71
2.36	88	266	56.7	43.3	42-58
1.18	29	295	62.9	37.1	34-48
0.6	11	306	65.2	34.8	26-38
0.3	46	352	75.1	24.9	18-28
0.15	45	397	84.6	15.4	12-20
0.075	55	452	96.4	3.6	4-10

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 10-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer's Reference	:	BBMP/EE/BTP/WO/38/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	08-11-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-03-25-33** **Date: 30-11-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No. 09 Vidyaranyapura, Vidyaranyapura Sub Division.
Agency	:	Sri. Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/38/2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	29-11-21
Type of Mix	:	Tack coat
Date of Test	:	29-11-21

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.769
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.021
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.233
7	Average	Kg/sq.m	0.239	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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